

TYPE	SOURCE	BMP	STRATEGY	EXISTING FUNDING LEVEL
Implementation	Urban	Multiple	James City County will continue to implement the requirements of the VDEQ Hampton Roads Sanitary Sewer Overflow Consent Order.	Program is dependant on continued staffing and adequate funding. Costs over the next 5 years are expected to reach \$10 M.
Implementation	Urban	Multiple	James City County will continue to implement the requirements of the County's MS4 stormwater discharge permit - MS4 Permit # VAR040037.	Program is dependant on continued staffing and adequate funding. Costs excluding the SSO Consent Order, E&S Control and CBPA = approximately \$0.5M annually
Capacity Building	Urban	Other (Specify)	MS4 Permit # VAR040037: James City County will continue to implement the County's public education and outreach program (James City PRIDE) to provide pollution prevention guidelines to the general public, County employees, selected industries (restaurant staff and landscapers) and property owners.	Programs reach approximately 10% of County businesses and citizens annually.
Capacity Building	Multiple	Other (Specify)	MS4 Permit # VAR040037: James City County will continue to engage water quality volunteers for benthic macroinvertebrate and Colliscan Easygel monitoring throughout the County.	Currently there are 17 certified monitors actively monitoring County waterways.
Implementation	Urban	Other (Specify)	MS4 Permit # VAR040037: James City County will continue mapping the County operated stormwater management system, including outfalls and inlets in older neighborhoods without a responsible operator.	
Implementation	Urban	Multiple	MS4 Permit # VAR040037: James City County will continue inspecting 20% of the County-operated non-BMP stormwater management system annually. Items requiring repairs or maintenance will be included in the annual capital maintenance budget.	
Implementation	Urban	Multiple	MS4 Permit # VAR040037: James City County will continue inspecting 20% of the County-operated non-BMP stormwater management system annually. Identified illicit discharges will be disconnected and proper disposal methods utilized.	
Implementation	Urban	Other (Specify)	MS4 Permit # VAR040037: James City County will continue implementing the illicit discharge ordinance and an illicit discharge elimination program.	
Implementation	Construction	Other (Specify)	MS4 Permit # VAR040037: James City County will continue to require site owners to secure VSMP authorization to discharge stormwater from construction activities resulting in a land disturbance of 2500 SF or more.	

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Implementation	Urban	Multiple	MS4 Permit # VAR040037: James City County will continue to annually inspect County-owned BMPs. When non-routine maintenance or repair is needed, the County will, to extent practical, evaluate upgrades to improve water quality and volume treatment, ensuring that the most effective upgrades are accomplished first.	
Implementation	Urban	Multiple	MS4 Permit # VAR040037: James City County will continue to track and inspect all privately owned BMPs on a 5-year cycle and work with owners to secure adequate maintenance .	
Implementation	Urban	Multiple	MS4 Permit # VAR040037: James City County will continue to develop and implement pollution prevention standard operating procedures for County-owned facilities.	
Implementation	Urban	Multiple	James City County will continue to implement the requirements of the Virginia Chesapeake Bay Preservation Act, utilizing a county-wide RMA and addressing land use, septic system maintenance and agricultural BMPs.	Program is dependant on continued staffing and adequate funding. Costs for both the CBPA and E&S Control Programs = approximately \$1.0 M annually
New BMP	Urban	Multiple	CBPA - James City County will continue to require stormwater management facilities for all development in accordance with the County-wide Resource Management Area.	
New BMP	Urban	Impervious Urban Surface Reduction (Acres)	CBPA - James City County will continue to implement an impervious cover cap of 60% for all new development.	
New BMP	Urban	EandS (Acres) (Annual)	CBPA - James City County will continue to require erosion and sediment control plans and treatment for all sites disturbing 2500 SF or more.	
New BMP	Urban	Impervious Urban Surface Reduction (Acres)	CBPA - James City County will continue to prohibit development on slopes that are 25% or greater.	
New BMP	Urban	Impervious Urban Surface Reduction (Acres)	CBPA - James City County will continue to require 100 ft wide forested buffers on RPA components including tidal wetlands, tidal shores, perennial streams and certain nontidal wetlands and floodplains for all development activities.	
New BMP	Urban	Multiple	CBPA - James City County will continue to require structural stormwater management facilities once the impervious cover for site plans reaches 10% or density reaches one-half dwelling unit per acre.	

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New BMP	Urban	Impervious Urban Surface Reduction (Acres)	CBPA - James City County will continue to promote the use of open space and conservation easements to meet stormwater compliance requirements.	
Capacity Building	Urban	Other (Specify)	CBPA - James City County will continue to require water quality impact assessments for any development or redevelopment within 100 ft of any water feature.	
New BMP	Urban	Impervious Urban Surface Reduction (Acres)	CBPA - James City County will continue to promote 50 ft forested buffers on intermittent streams and non-tidal wetlands and up to 200 ft on certain stream mainstems.	
New BMP	Agriculture	AgNutMan (Acres) (Life of Plan)	CBPA - James City County will continue to require nutrient management plans on agricultural lands.	
New BMP	Agriculture	ConPlan (Acres)	CBPA - James City County will continue to require conservation plans on agricultural lands.	
Implementation	Septic	Septic Pumpouts (systems) (Annual)	CBPA - James City County will continue to require pumpouts of septic systems every 5 years.	
Implementation	Urban	Infiltration (Acres Treated)	James City County will continue to promote low impact design/ better site design approaches to land development in the County.	
Capacity Building	Urban	Multiple	James City County will continue to develop watershed management plans for the remaining unplanned watersheds: Ware Creek (underway), York River, Diascund Creek, College Creek and Skiffes Creek. Management plans will include impervious/pervious land cover, stream corridor condition and flood plain connection, spatial location of urban BMPs and land area treated, and development of a stormwater master plan for needed upgrades, restoration and improvements.	Expenditures to date exceed \$0.5 M. Ware Creek is underway with FY11 funds and York River is currently funded with FY12 funds. Cost per watershed plan = \$220K X 3 currently unfunded watersheds = \$660K
Implementation	Urban	Multiple	James City County will continue, as funding allows, implementation of the retrofits and stream restorations identified in the stormwater master plans contained in approved watershed management plans: Gordon, Mill, Powhatam and Yarmouth Creeks.	FY08-FY12 expenditures to date > \$5.5 M. FY13-14 5-year CIP request = \$10.5M (also includes funding for known needs in unplanned watersheds)
New BMP	Urban	Multiple	James City County will continue to require additional stormwater treatment (known as Special Stormwater Criteria) in areas identified through the watershed management plans.	

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Implementation	Urban	Multiple	James City County will continue, as funding allows, implementation of the <i>Implementation Plan for the Fecal Coliform TMDL for Mill Creek and Powhatan Creek</i> since many of the management options and proposed actions affect sources of nutrients and sediment as well as bacteria (septic system upgrades, aquatic restoration, etc).	Estimated cost without the SSO Consent Order >\$3.45M
Implementation	Urban	Impervious Urban Surface Reduction (Acres)	James City County will continue to secure open space through the Greenspace and Purchase of Development Rights Programs.	FY 12 funding contains approximately \$6 M in account balances and \$14 M in bonding authority.
Implementation	Urban	UrbanNutMan (Acres) (Annual)	James City County will continue to support the Turf Love program, assisting citizens with improved fertilizer and turf irrigation management, generating up to 250 residential urban nutrient management plans per year.	Program is dependent on available urban land for planning. FY13 annual costs = \$63,750
New BMP	Urban	Infiltration (Acres Treated)	James City County will continue to support the Garden Love rain garden retrofit program to provide technical assistance to citizens for the installation of residential scale rain gardens on private property.	Program is dependent on sufficient number of Master Gardener volunteers and available urban land for planning. FY13 annual costs = \$37,530
New BMP	Urban	Tree Planting (Acres)	James City County will investigate development of an urban forest program with goals and implementation strategies to promote buffer restoration and tree planting on private and public property to reduce stormwater runoff.	
Implementation	Urban	Multiple	In support of the Garden Love and urban forest programs, James City County will seek to offer incentives for private BMP upgrades and installation, including incentives to defray the cost of upgrading privately owned BMPs, install rain gardens, encourage downspout disconnections, encourage tree and other native species planting, and provide free pet waste collection systems for neighborhoods.	Program is dependent on adequate funding - FY12 funding = approximately \$50,000
Implementation	Urban	Multiple	James City County will continue to implement County-adopted sustainable building policy that requires LEED certification for all new public facilities.	
Implementation	Urban	Multiple	James City County will continue to promote the implementation of County adopted policies for sustainable and green building design using incentive based LEED or other equivalent certification programs for private development projects.	
Implementation	Urban	UrbStrmRest (linft)	James City County will consider retiring a portion of available stream credits in the County's single-user mitigation bank.	

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Implementation	Urban	Multiple	James City County will continue to investigate and pursue grant opportunities to fund retrofits of existing stormwater quality control facilities to address water quality.	
Capacity Building	Urban	Multiple	James City County will continue evaluating preferred local funding mechanisms to support implementation of urban practices to advance WIP implementation.	
Capacity Building	Urban	Multiple	James City County will evaluate opportunities for nutrient credit trading as a means of reducing costs for WIP implementation.	
Implementation	Urban	Multiple	James City County will continue to evaluate and employ program modifications needed to implement the new stormwater regulations affecting new development and redevelopment.	